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semiconductor. CB is the conduction band, and VB is the valence band. At 0 o K, the VB is full with all the valence electrons.

Intrinsic

Semiconductors. As per theory of

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number of electrons (n) is equal to number of holes (p) and thus conductivity is very low as valence electrons are covalent bonded.

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atom taking the ground state energy level where $n = 1$ in which it follows equation (22) $E_n = -\frac{m_e e^4}{8 \epsilon_0^2 h^2 n^2}$ (22)
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